



SUSANA MARTINEZ  
Governor

JOHN A. SANCHEZ  
Lieutenant Governor

NEW MEXICO  
ENVIRONMENT DEPARTMENT  
*Surface Water Quality Bureau*

Harold Runnels Building, N2050  
1190 South St. Francis Drive (87505)  
P.O. Box 5469, Santa Fe, NM 87502-5469  
Phone (505) 827-0187 Fax (505) 827-0160  
[www.nmenv.state.nm.us](http://www.nmenv.state.nm.us)

**Certified Mail - Return Receipt Requested**



DAVE MARTIN  
Secretary

BUTCH TONGATE  
Deputy Secretary

JAMES H. DAVIS, Ph.D.  
Director  
Resource Protection Division

August 1, 2012

Mitch Knapton, General Manager/Chief Engineer  
Lee Ranch Coal Company  
P.O. Box 757  
Grants, New Mexico 87020

**RE: Minor Non-Municipal, SIC 1221, NPDES Compliance Evaluation Inspection, Lee Ranch Coal Company / Lee Ranch Mine, NM0029581, July 10, 2012**

Dear Mr. Knapton,

Enclosed, please find a copy of the report for the referenced inspection that the New Mexico Environment Department (NMED) Surface Water Quality Bureau (SWQB) conducted at your facility on behalf of the U.S. Environmental Protection Agency (USEPA). This inspection report will be sent to the USEPA in Dallas for their review. These inspections are used by USEPA to determine compliance with the National Pollutant Discharge Elimination System (NPDES) permitting program in accordance with requirements of the federal Clean Water Act.

Problems noted during this inspection are discussed in the Further Explanations section of the inspection report. You are encouraged to review the inspection report, required to correct any problems noted during the inspection, and to modify your operational and/or administrative procedures, as appropriate. Further, you are encouraged to notify in writing, both the USEPA and NMED regarding modifications and compliance schedules at the addresses below:

Diana McDonald  
US Environmental Protection Agency  
Allied Bank Tower  
Region VI Enforcement Branch (6EN-WM)  
1445 Ross Avenue  
Dallas, Texas 75202-2733

Program Manager  
New Mexico Environment Department  
Surface Water Quality Bureau  
Point Source Regulation Section  
P.O. Box 5469  
Santa Fe, New Mexico 87502

I appreciate the cooperation of both Mark Hiles and Ryan Hummel of Peabody Natural Resources during the inspection. If you have any questions about this inspection report, please contact me at 505-827-0418.

Sincerely,

/s/ Erin S. Trujillo  
Erin S. Trujillo  
Surface Water Quality Bureau

cc: Rashida Bowlin, USEPA (6EN) by e-mail  
Samuel Tate, EPA (6EN-AS) by e-mail  
Carol Peters-Wagnon, USEPA (6EN-WM) by e-mail  
Diana McDonald, USEPA (6EN-WM) by e-mail  
Hannah Branning, USEPA (6EN-WC) by e-mail  
Larry Giglio, USEPA (6WQ-PP) by e-mail  
Bill Chavez, Acting NMED District I Manager by e-mail  
David L. Clark, Prog. Manager, Coal Mine Reclamation, Mining & Minerals Division, EM&NRD by e-mail



**NPDES Compliance Inspection Report**

**Section A: National Data System Coding**

Transaction Code	NPDES	yr/mo/day	Inspec. Type	Inspector	Fac Type
1 N 2 5 3 N M 0 0 2 9 5 8 1 11 12 1 2 0 7 1 0 17 18 C 19 S 20 2					
Remarks					
B I T U M I N O U S C O A L S U R F A C E M I N E					
Inspection Work Days	Facility Evaluation Rating	BI	QA	Reserved	
67 [ ] [ ] [ ] 69	70 3	71 N 72 N 73 [ ] [ ] 74 75 [ ] [ ] [ ] [ ] [ ] [ ] 80			

**Section B: Facility Data**

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number) Lee Ranch Mine, Lee Ranch Coal Company, A Division of Peabody Natural Resources Company north of Milan, New Mexico. From I-40, take Exit 79 in Milan, travel north at stop sign, turn left onto Old Hwy 66, turn right onto NM 605, cross railroad tracks, travel 14 miles pass NM 509, travel 8 miles toward San Mateo, follow road as it curves left, at Forest Access Road 4761 fork continue left (follow signs) to Lee Ranch Mine office. McKinley County	Entry Time /Date <b>1130 hours / 07/10/2012</b>	Permit Effective Date November 1, 2010
	Exit Time/Date <b>1815 hours / 07/10/2012</b>	Permit Expiration Date October 31, 2015
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) -Mark Hiles, Env. Systems Manager, Peabody Natural Resources, Lee Ranch Mine 505-285-2802 -Ryan Hummel, Env. Engineer, Peabody Natural Resources	Other Facility Data <b>Lee Ranch Mine Entrance</b> Latitude 35.483740°, Longitude -107.663413°	
Name, Address of Responsible Official/Title/Phone and Fax Number Mitch Knapton, Lee Ranch Coal Company, P.O. Box 757, Grants, New Mexico 87020 / General Manager/Chief Engineer / 505-285-4651 and Fax 505-285-4650	SIC 1221 (Sub-Bituminous Coal Mine)	
Contacted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

**Section C: Areas Evaluated During Inspection**  
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

S	Permit	N	Flow Measurement	S	Operations & Maintenance	N	CSO/SSO
S	Records/Reports	N	Self-Monitoring Program	N	Sludge Handling/Disposal	N	Pollution Prevention
S	Facility Site Review	N	Compliance Schedules	N	Pretreatment	N	Multimedia
S	Effluent/Receiving Waters	M	Laboratory	N	Storm Water	N	Other:

**Section D: Summary of Findings/Comments (Attach additional sheets if necessary)**

- SEE ATTACHED CHECKLIST REPORT WITH FURTHER EXPLANATIONS.
- LEE RANCH MINE HAS PERMIT COVERAGE UNDER THE INDUSTRIAL STORMWATER MULTI-SECTOR GENERAL PERMIT (NPDES TRACKING #NMR05A985 SUBMITTED 01/29/2001 (EXPIRED) AND #NMR05GC30 SUBMITTED 01/05/2009 (ACTIVE)). AN INDUSTRIAL STORMWATER COMPLIANCE EVALUATION INSPECTION WAS NOT CONDUCTED ON THE DAY OF THIS INSPECTION.

Name(s) and Signature(s) of Inspector(s) <b>Erin S. Trujillo /s/ Erin S. Trujillo</b>	Agency/Office/Telephone/Fax <b>NMED/SWQB/505-827-0418</b>	Date <b>08/01/2012</b>
Signature of Management QA Reviewer <b>Richard E. Powell /s/ Richard E. Powell</b>	Agency/Office/Telephone/Fax <b>NMED/SWQB/505-827-2798</b>	Date <b>08/01/2012</b>

**SECTION A - PERMIT VERIFICATION**

PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS

 S  M  U  NA (FURTHER EXPLANATION ATTACHED Yes)DETAILS: **See further explanations for sampling locations or outfalls there were missing from the permit and mined out areas.**

1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE

 Y  N  NA

2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES

 Y  N  NA

3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT

 Y  N  NA4. ALL DISCHARGES ARE PERMITTED **No discharge since 09/15/2009 (Outfall 092).** Y  N  NA**SECTION B - RECORDKEEPING AND REPORTING EVALUATION**

RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT.

 S  M  U  NA (FURTHER EXPLANATION ATTACHED No)DETAILS: **eNOI subscriber agreement dated 09/15/2011.**1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRS. **No reported discharges since last inspection** Y  N  NA2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE. **No sampling and analysis data** S  M  U  NA

a) DATES, TIME(S) AND LOCATION(S) OF SAMPLING

 Y  N  NA

b) NAME OF INDIVIDUAL PERFORMING SAMPLING

 Y  N  NA

c) ANALYTICAL METHODS AND TECHNIQUES.

 Y  N  NA

d) RESULTS OF ANALYSES AND CALIBRATIONS.

 Y  N  NA

e) DATES AND TIMES OF ANALYSES.

 Y  N  NA

f) NAME OF PERSON(S) PERFORMING ANALYSES.

 Y  N  NA

3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE.

 S  M  U  NA

4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR..

 S  M  U  NA

5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA.

 Y  N  NA**SECTION C - OPERATIONS AND MAINTENANCE**

TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED.

 S  M  U  NA (FURTHER EXPLANATION ATTACHED No)DETAILS: **Domestic Sewage Package Plant w/Chlorination System. Impoundment inspections (Routine, Quarterly)**

1. TREATMENT UNITS PROPERLY OPERATED.

 S  M  U  NA

2. TREATMENT UNITS PROPERLY MAINTAINED.

 S  M  U  NA

3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED.

 S  M  U  NA

4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE.

 S  M  U  NA

5. ALL NEEDED TREATMENT UNITS IN SERVICE

 S  M  U  NA

6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED.

 S  M  U  NA

7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED.

 S  M  U  NA

8. OPERATION AND MAINTENANCE MANUAL AVAILABLE.

 Y  N  NA

STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED.

 Y  N  NA

PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED.

 Y  N  NA

**SECTION C - OPERATIONS AND MAINTENANCE (CONT'D)**

9. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR?  Y  N  NA  
 IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED?  Y  N  NA  
 HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS?  Y  N  NA
10. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT?  Y  N  NA  
 IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT?  Y  N  NA

**SECTION D - SELF-MONITORING**

PERMITTEE SELF-MONITORING MEETS PERMIT REQUIREMENTS.  S  M  U  NA (FURTHER EXPLANATION ATTACHED No )  
 DETAILS: **No discharge since 2009. Sample collection procedures would need to be developed/updated prior to discharge.**

1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT.  Y  N  NA
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.  Y  N  NA
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT.  Y  N  NA
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT.  Y  N  NA
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT.  Y  N  NA
6. SAMPLE COLLECTION PROCEDURES ADEQUATE  Y  N  NA
- a) SAMPLES REFRIGERATED DURING COMPOSITING.  Y  N  NA
- b) PROPER PRESERVATION TECHNIQUES USED.  Y  N  NA
- c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3.  Y  N  NA
7. IF MONITORING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE THE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT?  Y  N  NA

**SECTION E - FLOW MEASUREMENT**

PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS.  S  M  U  NA (FURTHER EXPLANATION ATTACHED No )  
 DETAILS: **Part I.A of the permit requires estimate. Discharge would be pumped or flow over spillway of impoundments.**

1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED.  Y  N  NA  
 TYPE OF DEVICE **No Flow Measurement Device Installed**
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED.  Y  N  NA
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED.  Y  N  NA
4. CALIBRATION FREQUENCY ADEQUATE.  Y  N  NA  
 RECORDS MAINTAINED OF CALIBRATION PROCEDURES.  Y  N  NA  
 CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE.  Y  N  NA
5. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE.  Y  N  NA
6. HEAD MEASURED AT PROPER LOCATION.  Y  N  NA
7. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES.  Y  N  NA

**SECTION F - LABORATORY**

PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS.  S  M  U  NA (FURTHER EXPLANATION ATTACHED Yes )  
 DETAILS: **Contract laboratory not inspected. If discharge, then TRC (Outfalls 034 & 034A ) & pH would be conducted on site.**

1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES)  Y  N  NA

**SECTION F - LABORATORY (CONT'D)**

2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED  Y  N  NA
3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT.  S  M  U  NA  
**Written analytical procedures would need to be updated prior to discharge.**
4. QUALITY CONTROL PROCEDURES ADEQUATE.  S  M  U  NA
5. DUPLICATE SAMPLES ARE ANALYZED. \_\_\_\_\_% OF THE TIME.  Y  N  NA
6. SPIKED SAMPLES ARE ANALYZED. \_\_\_\_\_% OF THE TIME.  Y  N  NA
7. COMMERCIAL LABORATORY USED.  Y  N  NA

LAB NAME **1) Trace Analysis, Inc.** **2) Bio-Aquatic Testing, Inc.**  
 LAB ADDRESS **6701 Aberdeen Ave, Ste 9, Lubbock, TX 79424-1515** **2501 Mayes Road, Ste 100, Carrollton, TX 75006-1378**  
 PARAMETERS PERFORMED **TSS, BOD5, E.coli Bacteria, Iron, etc.** **WET**

**SECTION G - EFFLUENT/RECEIVING WATERS OBSERVATIONS.**

S  M  U  NA (FURTHER EXPLANATION ATTACHED No).

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
<b>No Discharge</b>							

RECEIVING WATER OBSERVATIONS: **No flow in observed portions of Mulatto Creek on day of this inspection.**

**SECTION H - SLUDGE DISPOSAL**

SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS.  S  M  U  NA (FURTHER EXPLANATION ATTACHED No).  
 DETAILS: **Domestic sewage flows to lagoon.**

1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY. **No discharge reported.**  S  M  U  NA
2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503.  S  M  U  NA
3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: **Not Applicable** (e.g., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE)

**SECTION I - SAMPLING INSPECTION PROCEDURES** (FURTHER EXPLANATION ATTACHED No).

1. SAMPLES OBTAINED THIS INSPECTION.  Y  N  NA
2. TYPE OF SAMPLE OBTAINED  
 GRAB \_\_\_\_\_ COMPOSITE SAMPLE \_\_\_\_\_ METHOD \_\_\_\_\_ FREQUENCY \_\_\_\_\_
3. SAMPLES PRESERVED.  Y  N  NA
4. FLOW PROPORTIONED SAMPLES OBTAINED.  Y  N  NA
5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE.  Y  N  NA
6. SAMPLE REPRESENTATIVE OF VOLUME AND MATURE OF DISCHARGE.  Y  N  NA
7. SAMPLE SPLIT WITH PERMITTEE.  Y  N  NA
8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED.  Y  N  NA
9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT.  Y  N  NA

**Lee Ranch Coal Company / Lee Ranch Mine**  
**NPDES Permit No. NM0029581**  
**Compliance Evaluation Inspection**  
**July 10, 2012**

**Further Explanations**

**Introduction**

On July 10, 2012, Erin Trujillo of the New Mexico Environment Department (NMED), Surface Water Quality Bureau (SWQB) conducted a Compliance Evaluation Inspection (CEI) at the Lee Ranch Coal Company, Lee Ranch Mine, North of Milan and San Mateo in McKinley County, New Mexico.

On July 10, 2012, Erin Trujillo of the New Mexico Environment Department (NMED), Surface Water Quality Bureau (SWQB) conducted a Compliance Evaluation Inspection (CEI) at the Lee Ranch Coal Company, El Segundo Mine, North of Milan in McKinley County, New Mexico.

The facility is classified as a minor industrial discharger under the federal Clean Water Act, Section 402, of the National Pollutant Discharge Elimination System (NPDES) permit program. It is assigned NPDES permit number NM0029581 which regulates discharge from several outfalls to unclassified Mulatto Canyon Arroyo, thence San Isidro Arroyo, thence to Arroyo Chico, thence to Rio Puerco (East), thence to the Rio Grance in Segment 20.6.4.105 *State of New Mexico Standards for Interstate and Intrastate Surface Waters, 20.6.4 New Mexico Administrative Code (NMAC)*.

The NMED performs a certain number of CEIs each year for the U.S. Environmental Protection Agency (USEPA), Region VI. The purpose of this inspection is to provide the USEPA with information to evaluate the Permittee's compliance with the NPDES permit. This inspection report is based on information provided by the Permittee's representatives, observations made by the NMED inspectors, and records and reports kept by the Permittee and/or NMED. Additional information was obtained from <http://www.peabodyenergy.com>.

Upon arrival at the Lee Ranch Mine at approximately 1130 hours on the day of this inspection, the inspector made introductions, presented credentials and explained the purpose of the inspection to Mark Hiles, Environmental Systems Manager, Peabody Natural Resources. The inspector, Mr. Hiles and Ryan Hummel, Environmental Engineer, Peabody Natural Resources toured portions of the facility. The inspector left Lee Ranch Mine at approximately 1515 hours and traveled to the El Segundo Mine and was met by Mr. Hiles. The inspector and Mr. Hiles toured portions of the El Segundo Mine. An exit interview to discuss preliminary findings for both Lee Ranch Coal Company Lee Ranch Mine and El Segundo Mine was conducted with Mr. Hiles on site at the El Segundo Mine following the tour. The inspector left the El Segundo Mine at approximately 1815 hours on the day of this inspection.

**Facility Description/Treatment Scheme**

Lee Ranch Mine, located about 35 miles northwest of Grants, N.M., was opened in 1984. A workforce of approximately 100 uses a combination of dragline, and truck and shovel for overburden removal to uncover between three and five coal seams ranging from one- to six-feet thick. Overburden removal is a continuous, seven-day-a-week process. Coal loading takes place on the day shift, five days a week. Coal is hauled from the pit by truck to the processing plant for sizing, sampling, analysis and blending to customer specifications. Trains are loaded from three 15,000-ton silos. A 60-inch belt conveyor delivers the coal from the silos to a batch weighing system that loads each car.

Water from private wells, approximately 200,000 GPD, is used for coal preparation plants and shops; drinking and sanitary; and dust suppression. Flow from the wells enters a 180,000 gallon storage tank and/or an impoundment. Evaporation and sedimentation ponds are used to capture stormwater runoff (on-site record keeping labels outfalls as sediment, pit protection and mine sediment ponds). Domestic sewage is aerated, chlorinated and sent to an evaporation pond (lagoon) with a 2 million gallon capacity (Outfalls 034 and 034A). Water from truck wash, car wash and shop wash down passes through a sand oil separator prior to an on-site impoundment.

On-site record keeping included Outfalls 005, 053, 055 and 056 not associated with process plant areas, mine drainage areas or disturbed areas. A letter from Permittee to USEPA dated April 18, 2000 regarding Outfalls 053, 055 and 056, states, "*These impoundments collect stormwater prior to any disturbance related by the mine.*" Other impoundments exist at groundwater intercept wells, but the discharge from the wells are not authorized under this permit.

## **Section A – Permit Verification – Overall Rating of “S = Satisfactory”**

### **Comments** for Permit Verification

#### **Outfalls in Part I.A(a) and Part I.A(b)**

Part I.B of the permit lists 55 sampling locations. Part I.A provides effluent limitations and monitoring and lists 2 domestic sewage outfalls (034 and 034A) in Part I.A(a) and 54 process plant associated areas, mine drainage areas and disturbed areas outfalls in Part I.A(b).

Outfall 065 is listed in Part I.A.(b), but not in Part I.B of the permit. Outfall 065 is listed in the Permittee’s application (P22-00-02) received by USEPA on October 21, 2009; is listed on on-site record keeping (P22-00-3); and was shown on an on-site map (P22-00-03) in the southeast portion of the mine permit boundary.

Outfall 006 is not listed in the permit. Outfall 006 (SP-7) is included in the Permittee’s application received by USEPA on October 21, 2009; is listed on on-site record keeping as a process plant area (PP); and shown on an on-site map northwest of the main offices and shops south of the Mulatto Diversion Channel.

At least two of the outfalls (Outfalls 036 and 037) listed in Part I.A(b) of the permit have been eliminated (mined out) according to the Permittee on-site representative.

#### **Outfalls from Part I.A(b) to Part I.A(c)**

Effluent limitations in Part I.A(c) of the permit for Western Alkaline Coal Mining reclamation areas requiring a Sediment Control Plan does not list outfalls. Coal Mining Point Source Category definitions in 40 CFR 434.11 state, "*The term “reclamation area” means the surface area of a coal mine which has been returned to required contour and on which revegetation (specifically, seeding or planting) work has commenced.*" According to the Permittee’s on-site representative and on-site record keeping, reclamation areas (returned to contour and re-seeding activities) have started in some areas of the mine. Mine drainage is to impoundments. Some impoundment and outfall types are indicated as combined in on-site record-keeping (i.e., indicated as both mine drainage from process plant, mine drainage or disturbed areas; and reclamation areas). Drainage to the following outfalls were indicated as only reclamation areas in on-site record keeping: Outfall 015, 016, 020, 021, 032, 033, and 041.

### **Revisions**

If a revision to the outfalls listed in the permit is needed, then the Permittee would need to contact the USEPA. Part I.A of the permit states, "*Locations may be revised by the permittee if it becomes necessary to eliminate or establish new holding ponds. For any revision, the permittee shall submit appropriate maps showing the holding*

pond locations.” Requirements for the Sediment Control Plan, including deadlines for submittal prior to discharge and updates, are in Part II.E of the permit.

## **Section F – Laboratory – Overall Rating of “M = Marginal”**

### **Permit Requirements** for Laboratory

Part III.C.5 (Standard Conditions, Monitoring Procedures) of the permit states:

- a. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit or approved by the Regional Administrator.*
- b. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instruments at intervals frequent enough to insure accuracy of measurements and shall maintain appropriate records of such activities.*
- c. An adequate analytical quality control program, including the analyses of sufficient standards, spikes and duplicate samples to insure the accuracy of all required analytical results shall be maintained by the permittee or designated commercial laboratory.*

### **Findings** for Laboratory

Written on-site standard operating procedures for calibrating the pH meter and collecting storm water were provided for review during this inspection. If there was a discharge, then TRC (Outfalls 034 & 034A ) & pH monitoring would need to be conducted on site under this permit. Other samples would be sent to an off-site laboratory for analysis. Sample collection and analytical quality control procedures would need to be developed and/or updated prior to discharge (e.g., essential quality control elements, approved methods, procedures to ensure proper preservation techniques, etc).

Reviewed on-site procedures state, “*After all the samples are collected, chill the cooler.*” Table II of 40 CFR 136.3 requires some samples to be cooled to 6 deg C. Preservation Footnote 2 of Table II states, “*...preserve each grab sample within 15 minutes of collection....*”

Effective June 18, 2012, USEPA added new quality assurance and quality control language at 40 CFR 136.7 to specify twelve essential quality control elements that must be in the laboratory’s documented quality system unless a written rationale is provided to explain why these quality control elements are inappropriate for a specific analytical method or application.